

iWay

Introduction to iWay
Version 5 Release 2.0

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Preface

This documentation provides an overview of iWay Software. It is intended for all users of iWay Software including application developers, system administrators, and end users.

How This Manual Is Organized

This manual includes the following chapter:

Chapter	Contents
<i>Introducing iWay Software</i>	Provides an overview of iWay Software including its different business solutions and integration services.

Documentation Conventions

The following conventions apply throughout this manual:

Convention	Description
THIS TYPEFACE or <i>this typeface</i>	Denotes syntax that you must enter exactly as shown.
<i>this typeface</i>	Represents a placeholder (or variable) in syntax for a value that you or the system must supply.
<u>underscore</u>	Indicates a default setting.
<i>this typeface</i>	Represents a placeholder (or variable) in a text paragraph, a cross-reference, or an important term.
this typeface	Highlights a file name or command in a text paragraph that must be lowercase.
<i>this typeface</i>	Indicates a button, menu item, or dialog box option you can click or select.
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices; type one of them, not the braces.

Convention	Description
[]	Indicates a group of optional parameters. None are required, but you may select one of them. Type only the parameter in the brackets, not the brackets.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis points (...).
.	Indicates that there are (or could be) intervening or additional commands.

Related Publications

Visit our World Wide Web site, <http://www.iwaysoftware.com>, to view a current listing of our publications and to place an order. You can also contact the Publications Order Department at (800) 969-4636.

Customer Support

Do you have questions about iWay?

Call Information Builders Customer Support Service (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 a.m. and 8:00 p.m. EST to address all your iWay Software questions. Information Builders consultants can also give you general guidance regarding product capabilities and documentation. Please be ready to provide your six-digit site code (xxxx.xx) when you call.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our World Wide Web site, <http://www.informationbuilders.com>. It connects you to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of www.informationbuilders.com also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

Information You Should Have

To help our consultants answer your questions most effectively, be ready to provide the following information when you call:

- Your six-digit site code (xxxx.xx).
- Your iWay Software configuration:
 - The iWay Software version and release.
 - The communications protocol (for example, TCP/IP or LU6.2), including vendor and release.
- The stored procedure (preferably with line numbers) or SQL statements being used in server access.
- The database server release level.
- The database name and release level.
- The Master File and Access File.
- The exact nature of the problem:
 - Are the results or the format incorrect? Are the text or calculations missing or misplaced?
 - The error message and return code, if applicable.
 - Is this related to any other problem?
- Has the procedure or query ever worked in its present form? Has it been changed recently? How often does the problem occur?
- What release of the operating system are you using? Has it, your security system, communications protocol, or front-end software changed?
- Is this problem reproducible? If so, how?
- Have you tried to reproduce your problem in the simplest form possible? For example, if you are having problems joining two data sources, have you tried executing a query containing just the code to access the data source?
- Do you have a trace file?
- How is the problem affecting your business? Is it halting development or production? Do you just have questions about functionality or documentation?

User Feedback

In an effort to produce effective documentation, the Documentation Services staff welcomes any opinion you can offer regarding this manual. Please use the Reader Comments form at the end of this manual to relay suggestions for improving the publication or to alert us to corrections. You can also use the Documentation Feedback form on our Web site, <http://www.iwaysoftware.com>.

Thank you, in advance, for your comments.

iWay Software Training and Professional Services

Interested in training? Our Education Department offers a wide variety of training courses for iWay Software and other Information Builders products.

For information on course descriptions, locations, and dates, or to register for classes, visit our World Wide Web site (<http://www.iwaysoftware.com>) or call (800) 969-INFO to speak to an Education Representative.

Interested in technical assistance for your implementation? Our Professional Services department provides expert design, systems architecture, implementation, and project management services for all your business integration projects. For information, visit our World Wide Web site (<http://www.iwaysoftware.com>).

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Introducing iWay Software

Topics:

- Business Solutions
- Information Builders and iWay Software
- Tradition of Excellence
- Advance of Innovation
- Enterprise Integration Suite
- iWay Integration Services
- iWay Partnerships

Integration is among the hardest tasks an Information Technology company ever faces. The technologies involved are overwhelming in their variety and complexity. EAI tools, application servers, messaging systems, XML formats, EDI, and data formats are just the beginning; they rely on ERP systems, CRM applications, legacy transactions, and non-relational data structures.

iWay Software—unlike others in the industry—specializes in working with virtually any technology. Our middleware integrates disparate technologies, and works easily with virtually any middleware your business has or may acquire, even that of our competitors. With iWay Software, your business can buy only the middleware it needs and achieve a quick return on investment. As your business grows, iWay Software can help you to extend your middleware more quickly and cost-effectively, and with fewer complications, than ever before.

Business Solutions

The challenge of integration is as old as computers are. From the early days of file transfer to tape reels through modern application server and Enterprise Application Integration (EAI) tools, companies have tried to streamline business processes by automating and improving computer-to-computer interactions.

As computers evolved and enterprises became more heterogeneous, integration has become more complex. The marketplace is full of companies that have built extremely complex software—middleware—that promises to efficiently solve business problems by integrating information systems.

But the high costs of software acquisition, consulting, training, and staffing have made these solutions impractical for all but the most complex integration problems. Prominent analyst groups have determined that companies using these tools will spend over a million dollars before they process their first integrated transaction.

iWay Software's approach represents a return to simplicity, with an eye on supporting complex requirements. By offering simple and affordable solutions that easily connect systems—applications to other applications, clients to servers, Web pages to resources, proprietary middleware to open standards—iWay delivers a high return on investment long before other projects even get completed.

As requirements expand, iWay's solutions plug directly into other middleware—including integration brokers and application servers from BEA®, IBM®, Microsoft®, Oracle®, and dozens of other companies. As more vendors use Web services, they will also be able to take advantage of iWay's support of SOAP, WSDL, and other Web services technologies—without writing custom integration code.

Information Builders and iWay Software

iWay Software is an Information Builders company that accelerates business integration. The genesis of iWay Software is Information Builders' Enterprise Data Access (EDA) product group. Although the product line has changed and expanded dramatically, iWay Software fully supports existing EDA installations and offers upgrades to existing customers.

Components of the product line have been renamed and reorganized, and therefore, new terminology is used to describe the software architecture. Throughout our documentation, you will see references to both iWay and EDA terminology. Do not be concerned by this, as iWay and EDA components are interchangeable and integrate with each other.

Tradition of Excellence

Information Builders introduced its Enterprise Data Access (EDA) product line in 1991. Not only did EDA help define the middleware marketplace, it solidified the relationship between back-end systems and data and the exciting new desktop applications that emerged during the PC revolution. Ten years later, with over 2000 EDA installations in place, the company launched iWay Software, a new Information Builders company with an entirely new purpose: to revolutionize the way businesses use information to power business processes in the age of the Internet and Web services.

Advance of Innovation

iWay Software continues to provide new solutions to the challenges of advancing technology. For example, as the cost and complexity of integration brokers caused more and more project failures, iWay recognized the need for brokerless integration technologies that reduce the cost, time, effort, and risk of most integration projects.

Our technologies are used to support general-purpose integration requirements, industry-specific solutions involving SWIFT™, HIPAA, FIX, and other document types, and public-sector initiatives such as bioterrorism response systems. Customers estimate that our software saves them months on integration projects—reducing the complexity of their projects by *up to 80%*.

We recognize that we do not solve every technology problem someone may have, so unlike other vendors, we place top priority on working well with other companies' software. That way, when you buy iWay Software, you will not have to replace it with new technology in a few months or years.

In some ways, our innovation comes from our willingness to stay focused on our core competencies, making integration simple. Interoperability as a priority, not an afterthought. New uses for old systems. More connectivity, less code. Starting small but thinking big. iWay Software continues to lead the market in providing innovative solutions to pervasive integration problems.

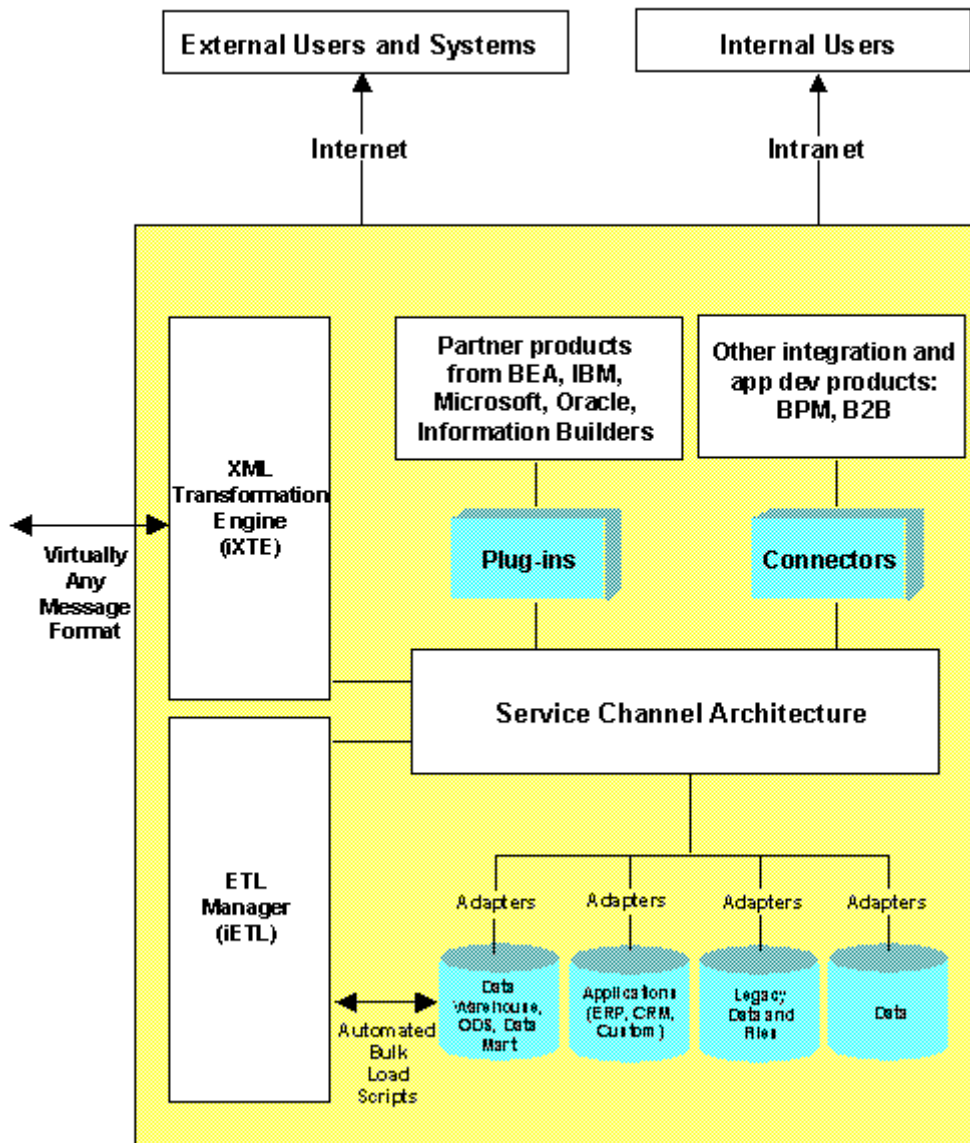
Enterprise Integration Suite

The iWay Software Enterprise Integration Suite comprises two major integration categories:

- **Business Integration Servers.** Business Integration Servers are used to define and manage business processes, and to specify how systems interact. Business Integration Servers include the following integration products:
 - XML Transformation Engine
 - Enterprise Integration Broker Solutions
 - ETL Manager
- **Service Channel Architecture.** The Service Channel Architecture takes your business initiatives through the last mile of integration. It includes all of the connectors, adapters, and messaging services required to integrate diverse enterprise IT investments for business purposes. When an iWay Business Integration Server, an iWay business partner's product, or another vendor's tool requires access to a back-office system or a B2B transaction, the Service Channel Architecture provides the necessary connections.

Each business integration server meets different business requirements. When used in conjunction with each other and with the Service Channel Architecture, they provide a flexible infrastructure that can solve business problems in a consistent and reliable manner.

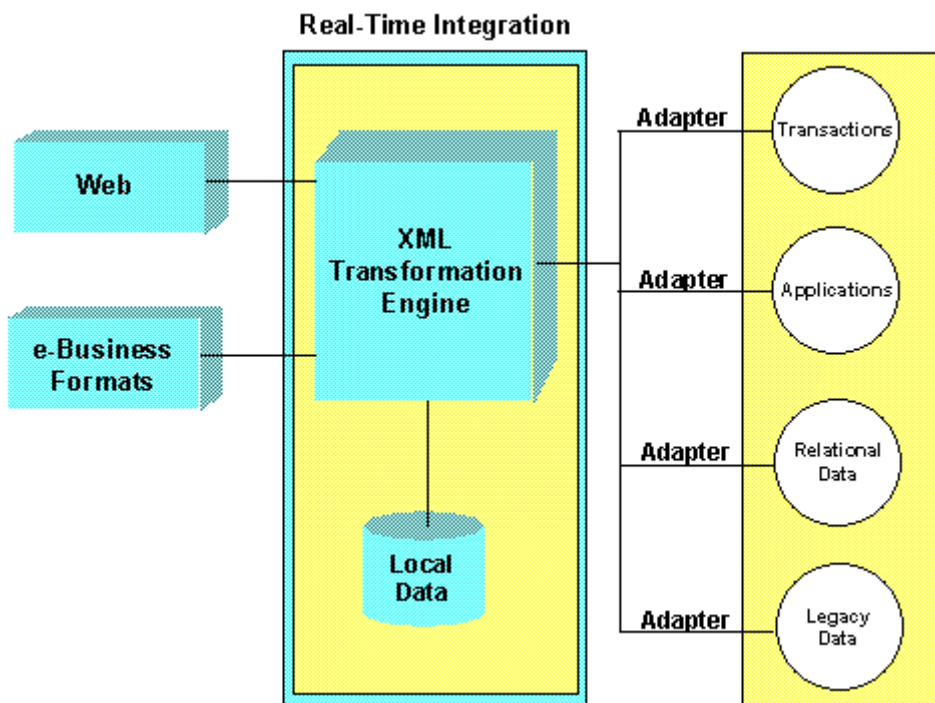
iWay Architecture Overview



XML Transformation Engine

The XML Transformation Engine delivers real-time lightweight brokerless integration based on XML data formats. It also transforms and integrates XML documents with information from back-office systems or business documents such as Web pages and Electronic Data Interchange (EDI).

By focusing on the transformation requirements, the XML Transformation Engine provides the major benefit of an integration broker—fewer interfaces to build and maintain—at a much lower cost, complexity, and risk.



Enterprise Integration Broker Solutions

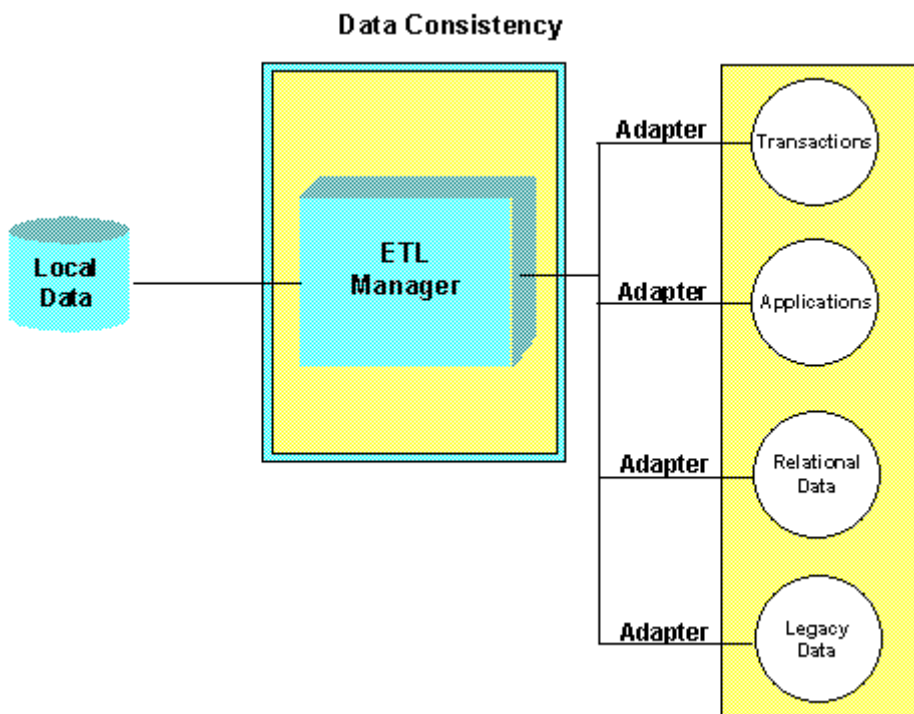
Although integration brokers are excessive approximately 80% of the time, iWay Software recognizes that enterprise architects need to plan for those times that integration brokers are justified.

iWay Software has designed its XML Transformation Engine from the ground up for interoperability with major integration broker solutions, including BEA WebLogic Integration, IBM WebSphere MQ Integrator, and Microsoft BizTalk Server. Special optimized plug-ins allow users to access iWay Adapters and the XML Transformation Engine from any of these brokers in a seamless, intuitive way.

Best of all, any work already done with the XML Transformation Engine can be immediately configured to work inside the integration broker, so developers are never faced with the prospect of reimplementing integration processes in more than one tool. In this way, you can use the XML Transformation Engine to solve an immediate problem without worrying about how it will fit into enterprise integration broker architecture.

ETL Manager

ETL Manager, formerly Copy Manager, physically moves large amounts of data to achieve a form of integration known as *Data Consistency*. Its Extraction, Transformation, and Load (ETL) capabilities—automated bulk loads of major databases, cross-database and cross-platform joins, data denormalization, hierarchy flattening, and more—create an optimized data store or Data Warehouse for use by Composite applications, Straight-Through Processing message flows, and any individual applications that must remain consistent with other applications.

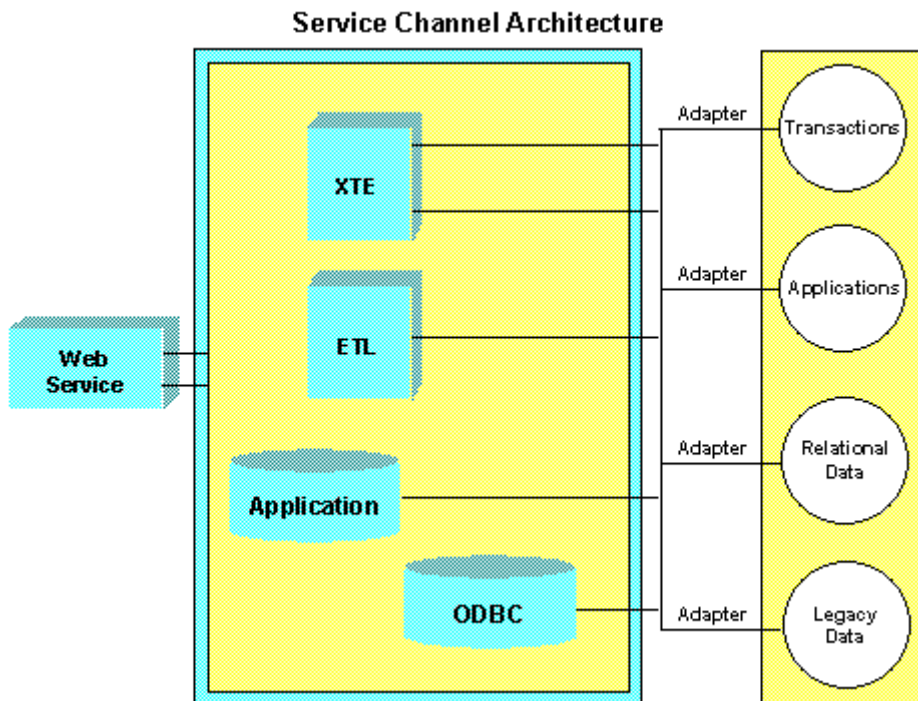


Service Channel Architecture

Many integration vendors provide only one or two server types to control integration. They pay little attention to ensuring that these servers interact with back-office systems in a cost-effective, reliable, and reusable way. iWay Software is different. The iWay Service Channel Architecture achieves cost-effectiveness, reliability, and reusability through a simple and scalable framework that exploits existing IT investments in new and unanticipated ways.

The Service Channel Architecture combines iWay Intelligent Adapters, iWay Enterprise Connectors, and other products as needed in order to simplify the way information systems interconnect. For example, information in a legacy hierarchical database, an Enterprise Java Bean, and an ERP application can all be accessed equally easily by:

- Message flows in the iWay Enterprise Integration Broker using XML.
- A partner's application using Web Services.
- New Java applications hosted by a Java Application Server using JDBC™.
- The iWay ETL Manager using its internal connections.
- Message flows, applications, or other existing integration technologies from other vendors using any industry-standard interface.



Applications and tools can use a single interface—JDBC, XML, Web Services, ODBC, OLE DB, IBM WebSphere MQ, or others—to communicate with a single Service Channel. The Service Channel provides connectivity to all information systems in the enterprise. The Service Channel also provides reuse of transformations and business logic that has been built in a variety of tools and technologies. By encapsulating different technologies, business logic, and data into standard interfaces, iWay simplifies integration tasks and saves time, money, and effort in every integration project in your enterprise.

The Service Channel Architecture is modular, and its adherence to standards guarantees that you will never be locked into an unproductive proprietary solution. iWay Software products run on over 35 platforms, including mainframes, midrange computers, and PCs.

- **iWay Intelligent Adapters** support more than 200 legacy and relational data sources, applications, and transaction systems as well as Enterprise Resource Planning (ERP), Supply Chain Management (SCM), and Customer Relationship Management (CRM) packages and other technologies.
- **iWay Enterprise Connectors** enable clients—Web browsers, packaged and custom applications, desktop tools, message filters, and transformation engines—to access and manipulate any information system. iWay Servers include built-in specialized connectors to simplify access to iWay Intelligent Adapters.

iWay Integration Services

Our systems integration consulting practice, iWay Integration Services, serves businesses and government agencies around the world. Its goals are to make the business process transition flow as smoothly as possible for these organizations and to reduce their current reliance on technical experts.

Worldwide Business Integration

With the global resources of Information Builders, iWay Integration Services is in a position to offer substantial support regardless of your location and the scope of your business plans.

- Reuse key IT investments.
- Focus on core competencies.
- Manage personnel requirements.
- Maintain continuity of existing systems.
- Acquire new skill sets.

Our integration experts and advanced products can help you focus on your own strategic plans rather than on obscure new technological developments. Rely on us to solve the tough technical problems so that you can reap the benefits. Remember, you cannot expect to accomplish anything in the business arena if you are constantly mired in technical detail.

The Right People With The Right Tools

iWay Integration Services provides more than just tool knowledge. We provide expert design, systems architecture, implementation, and project management services for all types of business integration projects. Our consultants pride themselves on their ability to create straightforward, open, robust, durable, and scalable solutions to real-world problems.

iWay Partnerships

Our partners are industry leaders addressing a broad range of markets, ranging from EAI and business integration to mobile computing, database processing, application development, and hardware. They have chosen the iWay integration infrastructure because of its breadth, its history of success, and because of the world-class partner support that comes with it.

iWay Software partners include:

AnyDevice
Ascential
BEA
Candle Corporation
IBM
Microsoft
NeuVis/Rational
OpenConnect
Oracle
Pumatech
Sand Technology
Silverstream
Unigraphics
...and many more

Partnering for Complete Solutions

Some of these partners have joined with us to develop joint products. Leading companies such as BEA, IBM, Microsoft, XML Global, and NeuVis (now part of Rational) have worked together with iWay Software to tightly integrate our products to provide world-class solutions from a single source. All of these vendors have committed to ensuring that our joint products work together as well as any products on the market today.

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